

CLAIMS

What is claimed is:

1. A system for implanting a prosthesis in a corporeal lumen having a wall, said system comprising:

a graft having a plurality of ends;

5 a plurality of capsule assemblies, each said capsule assembly having an elongate tubular member having proximal and distal ends and each being configured to releasably retain one end of said graft; and

10 at least one handle assembly, said handle assembly including a rack and pinion configured in a coaxial arrangement with one said elongate tubular member.

2. The system of claim 1, further comprising a one-piece capsule jacket assembly that is configured to substantially cover said capsule assemblies and said graft.

3. The system of claim 1, further comprising a lock wire assembly disposed in a lumen of one said elongate tubular member of said capsule assemblies, said pull wire assembly including a lock spaced-apart from
5 a pusher button and a handle spaced from said lock and said pusher button.

4. The system of claim 1, further comprising a pull wire slidably disposed in a lumen of one said elongate tubular member of said capsule assemblies, said pull wire including a slidable pusher button and a locking device.

5. The system of claim 1, wherein at least one capsule assembly includes a nose cone.

6. The system of claim 1, wherein said graft includes an attachment system secured to each of its ends, at least one attachment system including V-shaped members with hooked terminal ends.

7. The system of claim 1, wherein said system includes a plurality of handle assemblies, at least one said handle assembly includes a collet lock.

8. The system of claim 1, further comprising a balloon catheter, said balloon catheter including a shaft having at least one lumen formed therethrough and an inflatable member.

9. The system of claim 8, further comprising an anti-elongation reinforcement wire disposed in one lumen of said balloon catheter shaft.